Original/Duplicate/Triplicate

SBR No. 116/18-19
DATED 29-3-19

CONTRACT CERTIFICATE

(For Other Works)

EE/ELE/Y/BR No. 152/18-19

Dt. 29-3-19

No. 1st & Final Bill

Date.....2010

Division: **Electricals (Yelahanka)** Sub-Division: **Electricals**

Bill Received No. Dated Divisional Cash Book Voucher No..... Dated.....

Sub Divisional **Job Code :-011-18-000134**

Schedule Docket No. Head of Account : P – 1517(Upgradation of Street lights) D.R.No.

Name of Work. Providing LED Street Lights, RCC poles and Control wires in ward no 11.

.Name of Contractor and Full Address:- M/s Technical Manager KRIDL BBMP Bengaluru.

Reference to Agreement No:EE/Ele/YZ/WO/000057/2018-19 Date:- 23/02/2019

Certified that the measurements were taken by me on 28/3/2019 and recorded of Pages 526527 to 536 of measurement Book No. 2566/18-19 and that the work is satisfactorily executed.

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

Contractor

T.M. Badiger (Ele)

Officer-in-charge of work

Certified that the measurement were taken by me on 28/3/19 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Assistant Executive Engineer (Ele)
BBMP, Bangalore

Sub Division Officer

II Memorandum of Payment

1) Total value of work done or supplies made as per account within — Bill = 1998102=00
2) Deduct amount to be held in reserve being .....percent Rs..... — IT 2% 39962=00
3) " Balance — SB&St 1% 17811=00
4) Deduct Payment: — Contract 1% 17811=00
   a) Amount of previous payment as in the Office Cash Book Voucher — LWC 1% 19981=00
      No.....Dated.....S.D. No..... — FSD 7.5% 149858=00
      adjusted towards cash advance recovery of — CBF 0.1% 1999=00
   b) Payments Now made { cost store or other material supplied. / recovery of amount creditable to this/other work / Amount paid on this bill Cheque / Cash. — deductions= 247482=00
5) Balance being unpaid value of work done held in reserve. — Cheque= 1750620=00
6) Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.
7) Net amount due to or from Contractor unadjustments items.
8) Advance to Contractor for materials brought to site (as detailed) within.
9) Value of Government materials supplied.

Total amount adjusted -

Contractor's Signature

Received Rs.....(in words).....

.....

by cash and by adjustment of Payment as per memorandum (in final settlement of all demands)

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

(For use in the Office)

Witness
1.
2.

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

Dated Signature of Contractor

Paid by me by Cheque No.....Dated.....

Cash Rs.....

Dated.....Initials of Officer making payme

Stamp

ಲೆಕ್ಕಶೀರ್ಷಿಕ P1517 upgradation of street lights

ರೂ: 1998102=00 ಮೊತ್ತ ಪಾವತಿ ಮಾಡಿ ಸ್ವೀಕರಿಸಿದೆ

ರೂ: 1750620=00 ಚೆಕ್ ನೀಡಬಹುದಾಗಿದೆ

ರೂ: 247482=00 ಹೊಂದಾಣಿಕೆ ಮಾಡಿದೆ

ಲೆಕ್ಕ ಅಧೀಕ್ಷಕರು ಕಾರ್ಯಪಾಲಕ(ಪ) ಯಂತ್ರಿಯವರು

Sl no	Description of item	Unit
	Name of the Work:-Providing LED Street Lights, RCC poles and Control wires in ward no 11	
1	LED Street light. Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs. 50000 hr. @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4 KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools.	Nos
	LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI 75+. housing with supplier word mark / name shall be engraved / Embossing on the die cast housing / body part. . Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacturer. Suitable for A1/A2 Roads as per IS 1944 Part I & Part II.90 Watts	
3	Supplying and Fixing of.....mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 watts fluorescent tube street light fitting of all capacities to GI or CI or rail or RCC pole / wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires. Using 32mm dia G.I.pipe	Nos
4	Wiring for lighting/power circuit using one of PVC insulated 1100v grade stranded **Aluminium** unsheathed wire single core/multi core cable in open or consealed system of wiring. a)4 sqmm.	Mtrs
5	Supplying of 1.1kv grade Aerial Bunched cable stranded & compacted Aluminium Phase conductor and Stranded Messenger conductor with all aluminium alloy, Phase conductor is insulated with XLPE compound insulated Messenger with specified IS - 14255:1995 & confirming to GTP of group A. 2 X 25 + 1 X 25 SQ.MM	Mtrs
6	Stringing of 1.1kv LT Arial Bunched Cable, BESCOM SR	Mtrs
7	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanished, steel wire/steel tap armoured cable with PVC outer sheating 1.1 KV class.I. Class 'A' PVC Cable. 4 core 16 sqmm	Mtrs
8	Labour charges for laying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall /on pole as required. I. In existing trench/duct. 6 sqmm to 16 sqmm	Mtrs
9	Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc..complete. (As perCivil SR KSRB I-2, P-7).a) In soil (ordinary)	Mtrs
10	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. A)40x40x6mm.	Mtrs
11	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947.100-125Amps	Nos
12	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 40-63Amps TPN	Nos
13	Supplying and fixing of Twin Dial electro mechanical timer (without contactor) using necessary bolts, nuts and washers etc.. Group A, PWD SR 2007-08.	Nos
14	Fabricating supplying and mounting MS box made out... SWG suitable Ifor floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size cdlamps with mecessary cable entry pipe with gland and box should be finished with 2 cdoats of red oxide primer paint and finally finished with approved colour enameled metal pain etc., complete. b)16 swg	Sq cms

Previous		Present Measurement			Total Upto Date		Remarks
Qty.	Cost	Qty.	Rate	Amount	Qty	Cost	
		49	31250.00	1531250.00	49	1531250.00	
		49	893.00	43757.00	49	43757.00	
		296	7.50	2220.00	296	2220.00	
		297	143.00	42471.00	297	42471.00	
		297	10.30	3059.10	297	3059.10	
		214	140.40	30045.60	214	30045.60	
		214	10.80	2311.20	214	2311.20	
		148	78.00	11544.00	148	11544.00	
		5	263.00	1315.00	5	1315.00	
		1	9915.00	9915.00	1	9915.00	
		1	1936.00	1936.00	1	1936.00	
		1	4200.00	4200.00	1	4200.00	
		24850	0.33	8200.50	24850	8200.50	

15	Supply and fixing/replacing of choke for Sodium Vapour lamp fitting in existing fitting mounted on tubular pole.250Watts	Nos
16	Supplying and fixing of HPSV lamps on existing fitting mounted on tubular pole Twin ended 250 to 400Watts	Nos
17	Supplying and fixing/replacement of Ignitor suitable for 70 to 400Watts SV/MH fittings.	Nos
18	Supply and fixing of ....cross arm including all Hardware's complete as per the standard technical specification of BESCOM. 2 Pin 45x45x5mm -510mm	Nos
19	Piercing Connector Suitable for 16 Sqmm - 95 Sqmm AB Cable - Street Light Connections	Nos
20	Suspension Clamp Assembly16 to 70 Sqmm Bare Messenger(Exclusive of pole clamp and eye hook)	Nos
21	Dead End Clamp/Anchor Clamp Assembly 25 to95 Sqmm Bare Messenger(Exclusive of pole clamp and eye hook)	Nos
22	Erection of Suspension Clamp - 25 to 95 sqmm bare messenger	Nos
23	Installation of Insulation piercing connector for main to street lightMain : 16-95sqmm, Tap : 1.5-10sqmm(EP95)	Nos
24	Fixing of Universal Hook/Dead end clamp	Nos
25	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.	Nos
	total Rs	
	KRIDL Charges 11%	
	Total Rs	

Certificate: 1. Certefied that the Above Work has been carreid out satisfactorily

Assistant Executive Engineer (E/o)
BBMP, Bangalore

		30	1950.00	58500.00	30	58500.00	
		30	674.00	20220.00	30	20220.00	
		30	523.00	15690.00	30	15690.00	
		10	306.00	3060.00	10	3060.00	
		10	160.00	1600.00	10	1600.00	
		10	190.00	1900.00	10	1900.00	
		4	131.00	524.00	4	524.00	
		10	115.00	1150.00	10	1150.00	
		10	54.00	540.00	10	540.00	
		4	115.00	460.00	4	460.00	
		24	176.00	4224.00	24	4224.00	
				1800092.40		**1800092.40**	
				198010.16		198010.16	
				1998102.56		**1998102.56**	